SDG COVER PAGE

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51698 MA No.: SDG No.: MBHCX5

SOW No. : SFAM01.1

EPA Sample No.	Lab Sample Id	Analysis Method ICP-AES	ICP-MS	Mercury	Cyanide
MBHCX5	P4496-01	X		X	X
MBHCY6	P4496-02	X		X	X
MBHCY7	P4496-03	X		X	X
MBHDO5	P4496-04	X		X	X
MBHDO6	P4496-05	X		X	X
MBHZC7	P4496-06	X		X	X
MBHZC8	P4496-07	X		X	X
MBHZC8D	P4496-08	X		X	X
MBHZC8S	P4496-09	X		X	X

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the SDG Narrative. All edits and manual integrations have been peer-reviewed. Release of the data contained in this hardcopy Complete SDG File and in the electronic data submitted has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Name:

Date: Title:

68HERH20D0011 SDG # MBHCX5

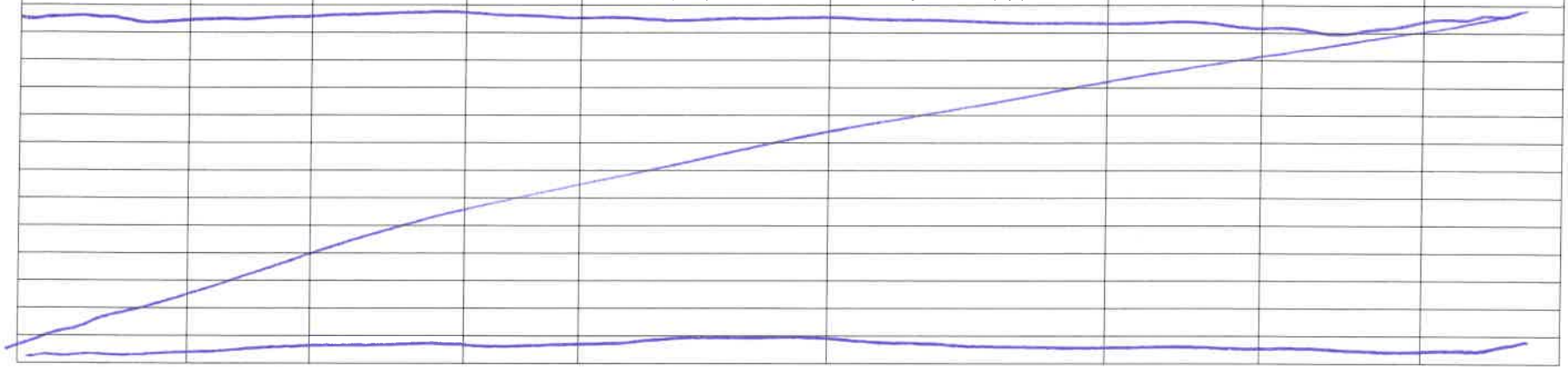
USEPA CLP COC (LAB COPY)
DateShipped: 10/22/2024
CarrierName: FedEx
AirbillNo: 779427650012

CHAIN OF CUSTODY RECORD

Case #: 51698
Cooler #: 5 of 5

No: 2-102224-0030-5005-05
Lab: Alliance Technical Group LLC
Lab Contact: Mohammad Ahmed
Lab Phone: 908-789-8900

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
RB-241016	MBHCX5	Blank/ START	Grab	Metals + Hg (aq)(180), Cn (aq)(180)	E (HNO3 pH<2, 4 C), F (HNO3 pH<2, 4 C) (2)	P065	10/16/2024 15:15	
RB-241017	MBHCY6	Blank/ START	Grab	Metals + Hg (aq)(180), Cn (aq)(180)	E (HNO3 pH<2, 4 C), F (HNO3 pH<2, 4 C) (2)	P065	10/17/2024 11:30	
RB-241018	MBHCY7	Blank/ START	Grab	Metals + Hg (aq)(180), Cn (aq)(180)	E (HNO3 pH<2, 4 C), F (HNO3 pH<2, 4 C) (2)	P065	10/18/2024 12:15	



Special Instructions: Please email results to s.sumbaly@westonsolutions.com and hector.rodriguez-cesani@westonsolutions.com. 21 day validated TAT.

Shipment for Case Complete? Y
Samples Transferred From Chain of Custody #

Analysis Key: Metals + Hg (aq)=TAL Metals + Hg (aq), Cn (aq)=Cn (aq)

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
All Samples	[signature] / start V	10-22-24/10:00	Fed Ex		
			[signature]	10-23-24 0950	2.2°C IR GUN #1
					custody seals intact
					Temp blk present

USEPA CLP COC (LAB COPY)
DateShipped: 10/22/2024
CarrierName: FedEx
AirbillNo: 779427640386

CHAIN OF CUSTODY RECORD

Case #: 51698
Cooler #: 4 of 5

No: 2-102224-0030-5005-04
Lab: Alliance Technical Group LLC
Lab Contact: Mohammad Ahmed
Lab Phone: 908-789-8900

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
P065-SS024-1218-02	MBHCX4	Soil/ START	Grab	Metals + Hg + Cn(180)	Q (4 C) (1)	Boring 24	10/16/2024 10:00	
P065-SS024-6072-01	MBHCX7	Soil/ START	Grab	Metals + Hg + Cn(180)	Y (4 C) (1)	Boring 24	10/16/2024 11:40	
P065-SS024-7284-01	MBHCX8	Soil/ START	Grab	Metals + Hg + Cn(180)	Y (4 C) (1)	Boring 24	10/16/2024 11:50	
P065-SS024-8496-01	MBHCX9	Soil/ START	Grab	Metals + Hg + Cn(180)	Y (4 C) (1)	Boring 24	10/16/2024 12:00	
P065-SS025-1824-01	MBHDO0	Soil/ START	Grab	Metals + Hg + Cn(180)	Q (4 C) (1)	Boring 25	10/18/2024 15:00	
P065-SS025-2430-01	MBHDO1	Soil/ START	Grab	Metals + Hg + Cn(180)	Q (4 C) (1)	Boring 25	10/18/2024 15:05	
P065-SS025-3042-01	MBHDO2	Soil/ START	Grab	Metals + Hg + Cn(180)	U (4 C) (1)	Boring 25	10/18/2024 15:10	
P065-SS025-4254-01	MBHDO3	Soil/ START	Grab	Metals + Hg + Cn(180)	Y (4 C) (1)	Boring 25	10/18/2024 15:15	
P065-SS025-5466-01	MBHDO4	Soil/ START	Grab	Metals + Hg + Cn(180)	Y (4 C) (1)	Boring 25	10/18/2024 15:20	
P065-SS025-6678-01	MBHDO5	Soil/ START	Grab	Metals + Hg + Cn(180)	Y (4 C) (1)	Boring 23	10/18/2024 15:25	✓

Special Instructions: Please email results to s.sumbaly@westonsolutions.com and hector.rodriguez-cesani@westonsolutions.com. 21 day validated TAT.

Shipment for Case Complete? Y

Samples Transferred From Chain of Custody #

Analysis Key: Metals + Hg + Cn=TAL Metals + Hg + Cn

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
All Samples	[signature] / START V	102224/1700	FedEx		
			[signature]	10-23-24 0950	19C JK GUN #1
					custody seals intact
					Temp BK - present

USEPA CLP COC (LAB COPY)

DateShipped: 10/22/2024
CarrierName: FedEx
AirbillNo: 779427640386

CHAIN OF CUSTODY RECORD

Case #: 51698
Cooler #: 4 of 5

No: 2-102224-0030-5005-04

Lab: Alliance Technical Group LLC
Lab Contact: Mohammad Ahmed
Lab Phone: 908-789-8900

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
P065-SS025-7890-01	MBHDO6	Soil/ START	Grab	Metals + Hg + Cn(180)	Y (4 C) (1)	Boring 25	10/18/2024 15:30	✓
P065-SS025-0006-01	MBHZC7	Soil/ START	Grab	Metals + Hg + Cn(180)	Y (4 C) (1)	Boring 25	10/18/2024 14:45	✓
P065-SS025-0612-01	MBHZC8	Soil/ START	Grab	Metals + Hg + Cn(180)	Q (4 C) (1)	Boring 25	10/18/2024 14:50	✓
P065-SS025-1218-01	MBHZC9	Soil/ START	Grab	Metals + Hg + Cn(180)	Q (4 C) (1)	Boring 25	10/18/2024 14:55	✓

Sample(s) to be used for Lab QC: P065-SS025-1218-01 Tag Q - Special Instructions: Please email results to s.sumbaly@westonsolutions.com and hector.rodriguez-cesani@westonsolutions.com. 21 day validated TAT.

Shipment for Case Complete? Y

Samples Transferred From Chain of Custody #

Analysis Key: Metals + Hg + Cn=TAL Metals + Hg + Cn

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
All Samples	[signature] / Stantec	10/22/24/1000	FedEx		
			[signature]	10-23-24 0850	1.9°C IR Gun #1
					Custody seals intact Temp Blk. present

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page 1 of 2
Received By (Print Name) Cassanova Reña		Log-in Date 10/23/2024
Received By (Signature)		
Case Number 51698	SDG No. MBHCX5	MA No. N/A

Remarks:	
1. Custody Seal (s)	Present, Intact
2. Custody Seal Nos.	n/a
3. Traffic Reports/Chain Of Custody Records	Present
4. Airbill	Present
5. Airbill No. and Shipping Container ID No.	779427650012 1
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	2.2 Degree C
8. Sample Condition	Intact
9. Sample Tags Sample Tag Numbers	Absent Listed on Traffic Report
10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree ?	Yes
11. Date Received at Lab	10/23/2024
12.Time Received	09:50

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	MBHCX5	1.6,13	E,F	P4496-01	Intact
2	MBHCY6	1.6,13	E,F	P4496-02	Intact
3	MBHCY7	1.6,13	E,F	P4496-03	Intact
4	N/A	N/A	N/A	N/A	N/A
5	N/A	N/A	N/A	N/A	N/A
6	N/A	N/A	N/A	N/A	N/A
7	N/A	N/A	N/A	N/A	N/A
8	N/A	N/A	N/A	N/A	N/A
9	N/A	N/A	N/A	N/A	N/A
10	N/A	N/A	N/A	N/A	N/A
11	N/A	N/A	N/A	N/A	N/A
12	N/A	N/A	N/A	N/A	N/A
13	N/A	N/A	N/A	N/A	N/A
14	N/A	N/A	N/A	N/A	N/A
15	N/A	N/A	N/A	N/A	N/A
16	N/A	N/A	N/A	N/A	N/A
17	N/A	N/A	N/A	N/A	N/A
18	N/A	N/A	N/A	N/A	N/A
19	N/A	N/A	N/A	N/A	N/A
20	N/A	N/A	N/A	N/A	N/A
21	N/A	N/A	N/A	N/A	N/A
22	N/A	N/A	N/A	N/A	N/A
23	N/A	N/A	N/A	N/A	N/A

* Contact SMO and attach record of resolution

Reviewed By	Logbook No. N/A
Date 10/23/24	Logbook Page No. N/A

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page 2 of 2
Received By (Print Name) George Nelson		Log-in Date 10/23/2024
Received By (Signature)		
Case Number 51698	SDG No. MBHCX5	MA No. N/A

Remarks:	
1. Custody Seal (s)	Present, Intact
2. Custody Seal Nos.	n/a
3. Traffic Reports/Chain Of Custody Records	Present
4. Airbill	Present
5. Airbill No. and Shipping Container ID No.	779427640386 2
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	1.9 Degree C
8. Sample Condition	Intact
9. Sample Tags Sample Tag Numbers	Absent Listed on Traffic Report
10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree ?	Yes
11. Date Received at Lab	10/23/2024
12.Time Received	09:50

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	MBHDO5	N/A	Y	P4496-04	Intact
2	MBHDO6	N/A	Y	P4496-05	Intact
3	MBHZC7	N/A	Y	P4496-06	Intact
4	MBHZC8	N/A	Q	P4496-07	Intact
5	MBHZC8D	N/A	Q	P4496-08	Intact
6	MBHZC8S	N/A	Q	P4496-09	Intact
7	N/A	N/A	N/A	N/A	N/A
8	N/A	N/A	N/A	N/A	N/A
9	N/A	N/A	N/A	N/A	N/A
10	N/A	N/A	N/A	N/A	N/A
11	N/A	N/A	N/A	N/A	N/A
12	N/A	N/A	N/A	N/A	N/A
13	N/A	N/A	N/A	N/A	N/A
14	N/A	N/A	N/A	N/A	N/A
15	N/A	N/A	N/A	N/A	N/A
16	N/A	N/A	N/A	N/A	N/A
17	N/A	N/A	N/A	N/A	N/A
18	N/A	N/A	N/A	N/A	N/A
19	N/A	N/A	N/A	N/A	N/A
20	N/A	N/A	N/A	N/A	N/A
21	N/A	N/A	N/A	N/A	N/A
22	N/A	N/A	N/A	N/A	N/A
23	N/A	N/A	N/A	N/A	N/A

* Contact SMO and attach record of resolution

Reviewed By		Logbook No.	N/A
Date	10/23/24	Logbook Page No.	N/A

FORM DC-2
COMPLETE SDG FILE (CSF) INVENTORY SHEET

LAB NAME	**Alliance Technical Group, LLC**		
LAB CODE	**ACE**		
CONTRACT NO.	**68HERH20D0011**		
CASE NO.	**51698**	SDG NO.	**MBHCX5**
MA NO.		SOW NO.	**SFAM01.1**

All documents delivered in the Complete SDG File must be original documents where possible. (Reference - Exhibit B Section 2.4)

	PAGE NOs: FROM	PAGE NOs: TO	CHECK LAB	CHECK REGION
1 . SDG Cover Page	1	1	✓	
2 . Traffic Report/Chain of Custody Record(s)	2	4	✓	
3 . Sample Log-In Sheet (DC-1)	5	6	✓	
4 . CSF Inventory Sheet (DC-2)	7	9	✓	
5 . SDG Narrative	10	14	✓	
6 . Communication Logs	15	17	✓	
7 . Percent Solids Log	18	19	✓	
Analysis Forms and Data (ICP-AES)				
8 . Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	20	26	✓	
9 . Instrument raw data by instrument in analysis order	27	912	✓	
Other Data				
10 . Standard and Reagent Preparation Logs	913	1098	✓	
11 . Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	1099	1102	✓	
12 . Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	1103	1126	✓	
13 . Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	
14 . Extraction Logs for TCLP and SPLP	NA	NA	✓	
15 . Raw GPC Data	NA	NA	✓	
16 . Raw Florisil Data	NA	NA	✓	
Analysis Forms and Data (ICP-MS)				
17 . Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	NA	NA	✓	
18 . Instrument raw data by instrument in analysis order	NA	NA	✓	
Other Data				
19 . Standard and Reagent Preparation Logs	NA	NA	✓	
20 . Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	NA	NA	✓	
21 . Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	NA	NA	✓	
22 . Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	

	PAGE NOs: FROM	TO	CHECK LAB	REGION
23. Extraction Logs for TCLP and SPLP	NA	NA	✓	
24. Raw GPC Data	NA	NA	✓	
25. Raw Florisil Data	NA	NA	✓	
Analysis Forms and Data (Mercury)				
26. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	1127	1133	✓	
27. Instrument raw data by instrument in analysis order	1134	1137	✓	
Other Data				
28. Standard and Reagent Preparation Logs	1138	1176	✓	
29. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	1177	1180	✓	
30. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	1181	1183	✓	
31. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	
32. Extraction Logs for TCLP and SPLP	NA	NA	✓	
33. Raw GPC Data	NA	NA	✓	
34. Raw Florisil Data	NA	NA	✓	
Analysis Forms and Data (Cyanide)				
35. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	1184	1190	✓	
36. Instrument raw data by instrument in analysis order	1191	1195	✓	
Other Data				
37. Standard and Reagent Preparation Logs	1196	1229	✓	
38. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	1230	1233	✓	
39. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	1234	1237	✓	
40. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	
41. Extraction Logs for TCLP and SPLP	NA	NA	✓	
42. Raw GPC Data	NA	NA	✓	
43. Raw Florisil Data	NA	NA	✓	

	PAGE NOs: FROM	TO	CHECK LAB	REGION
Additional				
44. EPA Shipping/Receiving Documents				
Airbill (No. of Shipments 2)	1238	1239	✓	
Sample Tags	NA	NA	✓	
Sample Log-In Sheet (Lab)	1240	1241	✓	
45. Misc. Shipping/Receiving Records (list all individual records)				
	NA	NA	✓	
46. Internal Lab Sample Transfer Records and Tracking Sheets (describe or list)				
	1242	1248	✓	
47. Other Records and related Communication Logs (describe or list)				
	NA	NA	✓	

48. Comments:

Completed by: (CLP Lab)		Nimisha Pandya, Document Control Officer	
	(Signature)	(Print Name & Title)	(Date)
Audited by: (EPA)			
	(Signature)	(Print Name & Title)	(Date)

284 Sheffield Street
Mountainside, NJ 07092

SDG NARRATIVE

USEPA
SDG # MBHCX5
CASE # 51698
CONTRACT # 68HERH20D0011
SOW# SFAM01.1
LAB NAME: Alliance Technical Group, LLC
LAB CODE: ACE
LAB ORDER ID # P4496

A. Number of Samples and Date of Receipt

04 Soil and 03 Water samples were delivered to the laboratory intact on 10/23/2024.

B. Parameters

Test requested for Metals CLP Full = Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Mercury, Cyanide.

C. Cooler Temp

Indicator Bottle**: Presence/**Absence

Cooler: 2.2^{o}C, 1.9^{o}C

D. Detail Documentation (related to Sample Handling Shipping, Analytical Problem, Temp of Cooler etc):

Issue 1 : A "P" or "M" prefix was listed at the beginning of a CLP sample ID.

Issue 2: Regarding SDG MBHCX5, Laboratory QC is scheduled for ICP-AES 11+ Metals, Hg and CN analyses, but the attached COC does not list a designated sample for QC. The laboratory has selected sample MBHZC8 to use for Laboratory QC and confirms that the sample is not a blank, rinsate, or PE sample.

E. Corrective Action taken for above:

Resolution 1 : To maintain COC integrity, ASB requests no changes to the Sample IDs. The laboratory will note the issue in the SDG Narrative and proceed with the analysis of the samples.

Resolution 2: Per SFAM01.1 Exhibit A, Section 5.5.4.1., the laboratory will note the issue in the SDG Narrative and proceed with the analysis of the samples.

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Mountainside, NJ 07092

F. Analytical Techniques:

All analyses were based on CLP Methodology by method SFAM01.1.

Inter Element correction factors (IECs) are determined annually and correction factor are applied during ICP-AES analysis.

G. Calculation:

Calculation for ICP-AES Soil Sample:

Conversion of Results from mg/L or ppm to mg/kg (Dry Weight Basis):

$$\text{Concentration (mg/kg)} = C \times \frac{Vf}{W \times S} \times DF$$

Where,

C = Instrument value in ppm (The average of all replicate exposures)
Vf = Final digestion volume (mL)
W = Initial aliquot amount (g) (Sample amount taken in prep)
S = % Solids / 100 (Fraction of Percent Solids)
DF = Dilution Factor

Example Calculation For Sample MBHDO5 For Antimony:

If C = 0.0083602ppm
Vf = 100 ml
W = 1.36g
S = 0.80 (80.0/100)
DF = 1

$$\text{Concentration (mg/kg)} = 0.0083602 \times \frac{100}{1.36 \times 0.80} \times 1$$

$$= 0.768400 \text{ mg/kg}$$

$$= 0.77 \text{ mg/kg (Reported Result with Signification)}$$

Calculation for ICP-AES Water Sample:

$$\text{Concentration or Result (µg/L)} = C \times \frac{Vf}{Vi} \times DF \times 1000$$

Where,

C = Instrument value in ppm (The average of all replicate exposures)

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Vf = Final digestion volume (mL)
Vi = Initial aliquot amount (mL) (Sample amount taken in prep)
DF = Dilution Factor

Example Calculation For Sample MBHCX5 For Arsenic:

If C = 0.0103045 ppm
Vf = 50 ml
Vi = 50 ml
DF = 1

$$\text{Concentration or Result (µg/L)} = 0.0103045 \times \frac{50}{50} \times 1 \times 1000$$

$$= 10.3045 \text{ µg/L}$$

$$= 10 \text{ µg/L (Reported Result with Signification)}$$

Calculation for Hg Soil Sample:

Conversion of Results from µg /L or ppb to mg/kg :

$$\text{Concentration (mg/kg)} = C \times \frac{Vf}{W \times S} \times DF / 1000$$

Where,

C = Instrument response in µg/L from the calibration curve.
Vf = Final prepared (absorbing solution) volume (mL)
W = Initial aliquot amount (g) (Fraction of Sample amount taken in prep)
S = % Solids / 100 (Fraction of Percent Solids)
DF = Dilution Factor

Example Calculation For Sample MBHDO6:

If C =0.2518 ppb
Vf = 100 mL
W = 0.50g
S = 0.675(67.5/100)
DF = 1

$$\text{Concentration (mg/kg)} = 0.2518 \times \frac{100}{0.50 \times 0.675} \times 1 / 1000$$

$$= 0.074607 \text{ mg/kg}$$

$$= 0.075 \text{ mg/kg (Reported Result with Signification)}$$

Calculation for Hg Water Sample:

284 Sheffield Street
Mountainside, NJ 07092

Concentration or Result (µg/L) = C x DF
Where,
C = Instrument response in µg/L from the calibration curve.
DF = Dilution Factor

Example Calculation For Sample MBHCY6:

If C = 0.1236 ppb
DF = 1
Concentration or Result (µg/L) = 0.1236 x 1
= 0.1236 µg/L
= 0.12 µg/L (Reported Result with Signification)

Calculation for CN Soil Sample:

Conversion of Results from µg /L or ppb to mg/kg:

$$\text{Concentration (mg/kg)} = C \times \frac{Vf}{W \times S} \times DF / 1000$$

Where,

C = Instrument response in µg/L CN from the calibration curve.
Vf = Final prepared (absorbing solution) volume (mL)
W = Initial aliquot amount (g) (Fraction of Sample amount taken in prep)
S = % Solids / 100 (Fraction of Percent Solids)
DF = Dilution Factor

Example Calculation for MBHZC8 :

If C = 3.8196 ppb
Vf = 50 ml
W = 1.01 g
S = 0.833(83.3/100)
DF = 1

$$\text{Concentration (mg/kg)} = 3.8196 \times \frac{50}{1.01 \times 0.833} \times 1 / 1000$$

= 0.22699 mg/kg

= 0.23 mg/kg (Reported Result with Signification)

Calculation for CN Water Sample:

284 Sheffield Street
Mountainside, NJ 07092

Concentration or Result (µg/L) = $C \times \frac{Vf}{Vi} \times DF$

Where,

C = Instrument response in µg/L CN from the calibration curve.
Vf = Final prepared (absorbing solution) volume (mL)
Vi = Initial aliquot amount (mL) (Sample amount taken in prep)
DF = Dilution Factor

Example Calculation For Cyanide:

If C = 4.1106 ppb
Vf = 50 ml
Vi = 50 ml
DF = 1

Concentration or Result (µg/L) = $4.1106 \times \frac{50}{50} \times 1$

= 4.1106 µg/L

= 4.1 µg/L(Reported Result with Signification)

H. QA/ QC

Calibrations met requirements. Interference check met requirements. Blank analyses did not indicate any presence of contamination. Laboratory Control sample was within control limits. Spike sample did meet requirements except for Antimony, Lead, Nickel, Selenium, Silver, Thallium. Duplicate sample did meet requirements except for Barium, Chromium, Lead, Magnesium, Nickel, Zinc. Serial Dilution did meet requirements except for Chromium, Iron, Manganese.

Chemical or physical interference effect was suspected and the data for all affected analytes in the sample received and associated with this serial dilution were flagged.

I certify that the data package is in compliance with the terms and conditions of the contract both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Director or his designee, as verified by the following signature.

Signature_____ Name: Nimisha Pandya

Date _____ Title: Document Control Officer

From: Bett, Daisy <Daisy.Bett@gdit.com>
Sent: Thursday, October 24, 2024 1:18 PM
To: Deepak Parmar; Sohil Jodhani; Mohammad Ahmed
Cc: Leung.christina@epa.gov; Feranda, Jennifer; Brandon-Bazile, Kim; Bauer, Heather E; Johnson, Matthew; Britz, Helen; 'Moody, Brett'; Gambrah, Derrick; Patel, Bhavita; Vargas.Magda@epa.gov
Subject: Region 02 | Case 51698 | Lab ACE | Issue Insufficient/inappropriate designation of laboratory QC | FINAL
Attachments: P4496-TR.pdf

Good afternoon,

Issue: Regarding SDG MBHCX5, Laboratory QC is scheduled for ICP-AES 11+ Metals, Hg and CN analyses, but the attached COC does not list a designated sample for QC. The laboratory has selected sample MBHZC8 to use for Laboratory QC and confirms that the sample is not a blank, rinsate, or PE sample.
Resolution: Per SFAM01.1 Exhibit A, Section 5.5.4.1., the laboratory will note the issue in the SDG Narrative and proceed with the analysis of the samples.

Please note that the laboratory may contact the appropriate CLP PM should any defects need to be waived for this issue.

Thank you,
Daisy Bett
Research Analyst Associate
GDIT Federal Civilian Division
EPA Region 2&3 CLP QSS Coordinator
Under contract to the EPA

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GENERAL DYNAMICS
information technology

Leave alert: Nov 4th - 8th

From: Deepak Parmar <Deepak.Parmar@alliancetg.com>
Sent: Thursday, October 24, 2024 10:18 AM
To: Bett, Daisy <Daisy.Bett@gdit.com>
Subject: FW: Region 2 | Case 51698 | Lab ACE | Issue Discrepancies with tags, jars, and/or COC

This Message Is From an External Sender

Please use caution with links, attachments, and any requests for credentials.

Thanks & Regards,

CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY

Deepak Parmar
QA/QC
An Alliance Technical Group Company
Main: 908-789-8900
Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092
www.alliancetg.com AST AEM AAS

From: Deepak Parmar
Sent: Thursday, October 24, 2024 10:16 AM
To: Zakari, Makki <Makki.Zakari@gdit.com>
Subject: Region 2 | Case 51698 | Lab ACE | Issue Discrepancies with tags, jars, and/or COC

Good morning,

Issue 1 : One SDG MBHCX5 is open without lab QC for ICP-AES,CN and HG analysis However, a sample was not designated for Laboratory QC. Lab like to use sample MBHZC8 for Lab QC. these samples are not blanks, rinsates or PE samples. All sample mentioned on COC for QC already use for other SDGs . Case complete.

Please see attachment for your reference.

Thanks & Regards,

CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY

Deepak Parmar
QA/QC
An Alliance Technical Group Company
Main: 908-789-8900
Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 10/25/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 16:40
In Date: 10/24/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:14
Out Date: 10/25/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB133114

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
P4496-04	MBHDO5	1	1.14	8.68	9.82	8.08	80.0	
P4496-05	MBHDO6	2	1.15	8.82	9.97	7.1	67.5	
P4496-06	MBHZC7	3	1.18	8.53	9.71	8.26	83.0	
P4496-07	MBHZC8	4	1.17	8.56	9.73	8.3	83.3	
P4496-08	MBHZC8D	5	1.17	8.56	9.73	8.3	83.3	
P4496-09	MBHZC8S	6	1.17	8.56	9.73	8.3	83.3	

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WORKLIST(Hardcopy Internal Chain)

M133114

WorkList Name : %1-p4496 **WorkList ID :** 184749 **Department :** Wet-Chemistry **Date :** 10-24-2024 16:13:09

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4496-04	MBHDO5	Solid	Percent Solids	Cool 4 deg C	USEP01	Q51	10/18/2024	Chemtech -SO
P4496-05	MBHDO6	Solid	Percent Solids	Cool 4 deg C	USEP01	Q51	10/18/2024	Chemtech -SO
P4496-06	MBHZC7	Solid	Percent Solids	Cool 4 deg C	USEP01	Q51	10/18/2024	Chemtech -SO
P4496-07	MBHZC8	Solid	Percent Solids	Cool 4 deg C	USEP01	Q51	10/18/2024	Chemtech -SO
P4496-08	MBHZC8D	Solid	Percent Solids	Cool 4 deg C	USEP01	Q51	10/18/2024	Chemtech -SO
P4496-09	MBHZC8S	Solid	Percent Solids	Cool 4 deg C	USEP01	Q51	10/18/2024	Chemtech -SO

Date/Time 10/24/24 16:20
Raw Sample Received by: JQ WL
Raw Sample Relinquished by: CP SM

Date/Time 10/24/24 16:55
Raw Sample Received by: CP SM
Raw Sample Relinquished by: JQ WL